

Title (en)  
OPTICAL SYSTEM AND HEADS UP DISPLAY SYSTEMS

Title (de)  
OPTISCHES SYSTEM UND HEADS-UP-ANZEIGESYSTEME

Title (fr)  
SYSTÈME OPTIQUE ET SYSTÈMES D'AFFICHAGE TÊTE HAUTE

Publication  
**EP 4070151 A4 20240110 (EN)**

Application  
**EP 20895796 A 20201130**

Priority  
• US 201962943856 P 20191205  
• IB 2020061269 W 20201130

Abstract (en)  
[origin: WO202111273A1] An optical system includes a display system including a display having first and second display pixels interspersed with each other across the display. The first and second display pixels emit superimposed different respective first and second images polarized along the first direction. The display system includes a patterned retarder having pluralities of first and second retarder pixels aligned and registered with the respective first and second display pixels in one-to-one correspondence. The first retarder pixels are configured to receive and transmit the first emitted image as the first output image polarized along the first direction. The second retarder pixels are configured to receive, change the polarization direction, and transmit the second emitted image as the second output image polarized along the second direction. A reflective polarizer is configured to receive the first and second output images and substantially transmit the first output image and substantially reflect the second output image.

IPC 8 full level  
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CPC (source: EP US)  
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Citation (search report)  
• [IY] US 2019149781 A1 20190516 - YATA TATSUYA [JP], et al  
• [Y] US 2017045737 A1 20170216 - CAMMENG DAVID J [US], et al  
• [Y] EP 1411321 B1 20170419 - MITUTOYO CORP [JP]  
• See references of WO 202111273A1

Designated contracting state (EPC)  
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